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U. S. DEPARTMENT OF AGRICULTURE,

Division of Statistics-Bulletin No. 23, Misc. Ser.,

JOHN HYDE, Statistician.

STATISTICS

ON THE

FRUIT INDUSTRY

OF

CALIFORNIA.

BY

EDWIN S. HOLMES, Jr., Field Agent, Division of Statistics.



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LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
OFFICE OF THE STATISTICIAN,
Washington, D. C., November 21, 1901.

SIR: I have the honor to transmit herewith a report on Statistics on the Fruit Industry of California, prepared, under the general direction of the Statistician, by Mr. Edwin S. Holmes, jr., a special agent of the Division of Statistics, and to recommend the publication of the same as Bulletin No. 23 of this office.

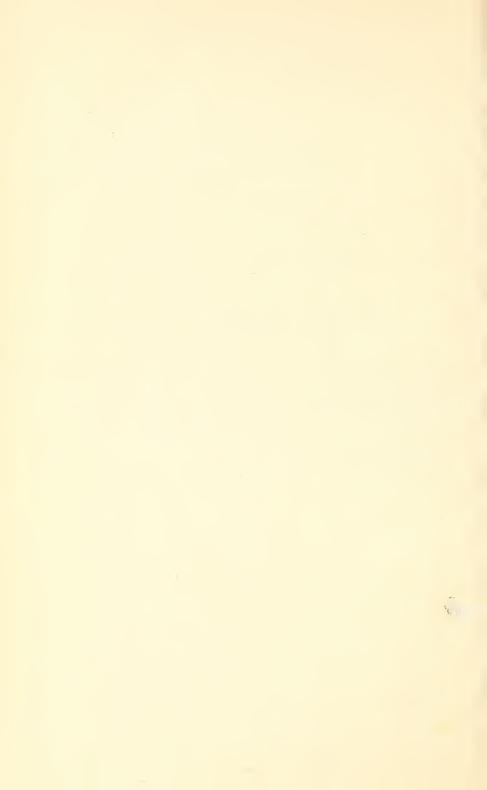
Respectfully,

JOHN HYDE, Statistician.

Hon. James Wilson, Secretary of Agriculture.

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STATISTICS ON THE FRUIT INDUSTRY OF CALIFORNIA.

DEVELOPMENT OF THE INDUSTRY.

The fruit industry of California was practically begun during the establishment of the missions of the Franciscan monks. As early as 1792 there were about 5,000 trees growing at the different missions; apples, pears, oranges, limes, lemons, and olives constituted the greater proportion of these trees, and as they nearly all did well they proved the possibility of fruit culture in California.

In 1830 some attention was given to the cultivation of fruit in Sonoma County, and several small orchards were planted. About ten or fifteen years later the planting of fruit trees began in Los Angeles and Yolo counties, but only in a small way. The fruit era, however, opened about the time of the great gold excitement of 1849. The majority of the immigrants to the State thought of nothing but gold; but a few of the more conservative obtained possession of some of these old orchards and found a handsome profit in selling their fruit at the then exorbitant prices. The demand for all kinds of fruit has since that time steadily increased, and within recent years fruit growing has come to be one of the most important of California's many industries.

The climate of the State is particularly favorable to the fruit industry, and the soil in almost every section possesses practically all the qualities required for the successful cultivation of the growing plant and the matured tree.

VARIETIES GROWN.

There are many kinds of fruit produced successfully in California which can not be raised in most of the Eastern States. This is particularly true of the citrus and subtropical fruits which grow in

fusion and pay handsomely in California.

There is hardly a section of the State in which there may not be found large orchards devoted to one or more of the many varieties of fruit trees. The high mountain valleys are adapted in both climate and soil to the raising of the hardy northern varieties of fruits, and between these and the low valleys of the south may be found conditions of climate admirably suited to the production of nearly all kinds of fruit known to domestic commerce.

APPLES.—The apple does phenomenally well along the coast where the temperature is not too high, in the mountain counties, and in the foothills of the Sierra and Coast ranges; the fruit is very fine, and the crop is an exceedingly profitable one, when grown within reasonable distance of transportation lines.

Peaches.—Peaches are grown extensively and thrive best in the higher portions of the warm valleys and the lower foothills. The peach is probably the favorite deciduous fruit of California. It ripens early, has a good flavor, and yields profitable returns as early as the second year after planting.

PEARS.—Pear's grow to perfection over a much wider range of the State than most other fruit, the tree seeming to adapt itself readily to diversity of soil and climate. It also stands exposure well.

Apricots.—The commercial cultivation of apricots in the United States is practically confined to the Pacific coast. This is one of the choicest of fruits, and does particularly well in California.

QUINCES.—The quince thrives wherever apples and pears are grown. The fruit is of very large size and of finest quality.

CHERRIES.—The cherry crop is a remunerative one, and this fruit is grown profitably in many localities.

Figs.—The fig grows in all sections of the State. The fruit is larger and of better quality in the warmer regions.

OLIVES.—Olives thrive all over the State, except in the higher altitudes of the Sierras and in the low lands of the coast. The olive industry is as yet hardly beyond its infancy in California, but the bearing trees can be found in almost every county, and all bid fair to make paying returns.

PRUNES.—California prunes are of superior taste and quality, and the crop is of great and increasing commercial importance. Prunes are more extensively cultivated than any other fruit of the State. The yield is very large, trees in full bearing yielding annually from 150 to 300 pounds of green fruit each.

Plums.—Plums, while not so extensively cultivated as prunes, grow to perfection in many localities and yield abundant returns.

CITRUS FRUIT.—The extraordinary profits of citrus-fruit cultivation have attracted wide attention, and the industry has developed wonderfully in the last few years. Much of the land of the State is especially adapted to the cultivation of citrus fruit, and while by far the greater portion of the commercial crop of the State is at present grown in southern California, fruit of this character can be safely and profitably grown all along the foot hills of the Sierra Nevada Mountains, from San Diego to Tehama County, a distance of over 700 miles. This area is known as the thermal belt, and varies in width from 3 to 30 miles. Strange to say, the mean summer temperature in this belt is higher in the northern part than in the south-

ern, but in the winter the mean temperature is higher in the southern than in the northern section. The mean temperature for the entire year, however, does not vary more than 4° throughout the whole belt.

ACREAGE AND NUMBER OF TREES.

According to assessors' reports, in 1900 there were in the State 16,192,876 bearing fruit trees and 13,209,411 non-bearing, an aggregate number of 29,402,287 trees, covering an area of 452,252 acres.

Of the total number of trees, 8,072,843 were prune trees, 5,521,967 peach, 3,652,454 orange, 2,744,910 apricot, and 2,162,740 olive trees; requiring 116,997 acres of ground for the prune trees, 80,029 acres for the peach trees, 52,934 for the orange trees, 39,781 for the apricot trees, and 45,057 for the olive trees. In addition to this, there were 157,000 acres devoted to the cultivation of grapes.

The following table, compiled from assessors' reports to the State Board of Equalization, shows the number of fruit trees and the acreage of each kind of fruit in the State in 1900:

Number and acreage of each kind of fruit trees in California in 1900.

[Assessors' returns considered too low to be strictly accurate; about 20 per cent should be added to the figures in the table.]

Kinds of trees.	· Nu	Number of trees.			
	Bearing.	Non-bear- ing.	Total.	Acreage in fruit.	
Apple ¹ Almond ¹ Apricot ¹ Cherry ¹ Fig ² Grapes (all kinds)	394, 836 135, 007		1, 576, 796 1, 603, 485 2, 744, 910 574, 630 216, 066	22, 852 23, 239 39, 781 8, 328 4, 501 157, 000	
Lenion ¹ Line ³ Nectarine ¹ Drange ¹ Dlive ² Peach ¹	263, 240 250 15, 625 1, 683, 885 364, 811 3, 285, 597	642, 502 100 257 1, 968, 569 1, 797, 929 2, 236, 370	905, 742 350 15, 882 3, 652, 454 2, 162, 740 5, 521, 967	13, 127 3 230 52, 934 45, 057 80, 029	
Pear ¹ Plum ¹ Pomelo ² Prune ¹ (French)	987, 921 7, 632 2, 233 4, 500, 313	532, 035 4, 406 22, 227 2, 721, 659	1,519,956 12,038 24,460 7,221,972	22, 029 174 510 104, 666	
Prune ¹ (other kinds) Junince ³ Walnut ⁴ Miscellaneous	507, 986 4, 988 255, 843 123, 284	342, 885 692 279, 918 133, 243	850, 871 5, 680 535, 761 256, 527	12, 331 53 19, 843 2, 565	
Total	16, 192, 876	13, 209, 411	29, 402, 287	609, 252	

¹ Averaged 25 feet apart.

DISTRIBUTION OF TREES.

Statistics of the number of fruit trees in each county of the State are not available for a later date than 1898, but figures for that year will indicate approximately the relative number of trees in the two sections of the State commonly known as northern and southern

³ Averaged 20 feet apart.

² Averaged 30 feet apart.

⁴ Averaged 40 feet apart.

California, the Tehachapi Mountains forming the dividing line between the two sections.

In 1898 assessors reported that there were 27,538,789 fruit trees of all kinds in California. Of this number, 17,026,748 were bearing and 10,512,041 non-bearing.

Northern California had 19,171,596 fruit trees of all kinds, amounting to 69.6 per cent of the total number in the State, the remaining 8,367,193 trees, or 30.4 per cent of the total number, being in southern California.

Of the bearing trees, 13,160,823, or 77.3 per cent, were in northern California, and 3,865,925 trees, or 22.7 per cent of the total number in bearing, were in southern California.

The non-bearing trees were more equally distributed, however, 6,010,773, or 57.2 per cent, being in northern California, and 4,501,268, or 42.8 per cent, in southern California.

The following table, compiled from assessors' reports to the State Board of Equalization, shows the number of fruit trees in each county in the State in 1898:

Total number of bearing and non-bearing fruit trees in California in 1898.

[Assessors' returns considered too low to be strictly accurate; about 20 per cent should be added to the figures in the table.]

Bearing		Number of trees.			
Alameda 633, 450 353, 300 986, 75 Alpine 875 550 1, 48 Amador 20, 975 9, 300 30, 27 Butte 458, 555 7, 795 466, 32 Calaveras 22, 075 9, 975 32, 02 Colusa 114, 300 117, 950 232, 22 Contra Costa 325, 370 108, 640 434, 01 Del Norte 10, 291 652 10, 94 Eldorado 194, 520 45, 855 240, 37 Fresno 545, 389 312, 191 857, 56 Glenn 164, 500 22, 100 186, 60 Humboldt 19, 238 38, 861 34, 10 Inyo 30, 248 3, 861 34, 10 Kern 127, 800 104, 109 231, 99 Kings 343, 625 75, 613 419, 22 Lassen 85, 018 88, 201 Lassen 20, 153 3, 664 23, 81 Madera 49, 099 2, 736 51, 88 Marin 324, 480 8, 922	Counties.	Bearing.		Total.	
Alameda 633, 450 353, 300 986, 75 Alpine 875 550 1, 48 Amador 20, 975 9, 300 30, 27 Butte 458, 555 7, 795 466, 32 Calaveras 22, 075 9, 975 32, 02 Colusa 114, 300 117, 950 232, 22 Contra Costa 325, 370 108, 640 434, 01 Del Norte 10, 291 652 10, 94 Eldorado 194, 520 45, 855 240, 37 Fresno 545, 389 312, 191 857, 56 Glenn 164, 500 22, 100 186, 60 Humboldt 19, 238 38, 861 34, 10 Inyo 30, 248 3, 861 34, 10 Kern 127, 800 104, 109 231, 99 Kings 343, 625 75, 613 419, 22 Lassen 85, 018 88, 201 Lassen 20, 153 3, 664 23, 81 Madera 49, 099 2, 736 51, 88 Marin 324, 480 8, 922	Youthown California				
Alpine		633 450	353 300	986 750	
Amador 20,975 9,300 30,275 Butte 458,555 7,795 466,37 Calaveras 22,075 9,975 32,07 Colusa 114,300 117,950 232,27 Contra Costa 325,370 108,640 434,07 Del Norte 10,291 652 10,98 Eldorado 194,520 45,855 240,37 Fresno 545,389 312,191 857,58 Glenn 164,500 22,100 186,66 Humboldt 10,90 38,248 3,861 34,109 Inyo 38,386 38,248 34,109 231,99 Kings 343,625 75,613 419,22 419,22 Lake 85,018 85,018 85,018 85,018 Lassen 20,153 3,664 23,81 Madera 49,099 2,736 51,8 Marin 32,48 8,922 41,4 Marino 32,480 8,922 41,4 <td></td> <td></td> <td></td> <td></td>					
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Calaveras 22,075 9,975 32,02 Colusa 114,300 117,950 232,22 Contra Costa 325,370 108,640 434,01 Del Norte 10,291 652 10,93 Eldorado 194,520 45,855 240,37 Fresno 545,389 312,191 857,56 Glenn 164,500 22,100 186,60 Humboldt 197,580 104,109 231,99 Kern 30,248 3,861 34,10 Kings 343,625 75,613 419,22 Lake 85,018 85,018 85,018 Lassen 20,153 3,664 23,81 Madera 49,099 2,736 51,8 Marin 32,480 8,922 41,4 Mariposa 37,000 41,050 78,0 Mendocino 89,518 67,301 156,81 Mondoc 19,237 4,288 23,5 Mondoc 19,237 4,288				466, 350	
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Contra Costa 325,370 108,640 434,07 Del Norte 10,291 652 10,94 Eldorado 194,520 45,855 240,37 Fresno 543,889 312,191 857,55 Glenn 164,500 22,100 186,66 Humboldt 30,248 3,861 34,16 Inyo 30,248 3,861 34,16 Kern 127,860 104,109 231,96 Kings 343,625 75,613 410,22 Lake 85,018 85,018 85,018 Lassen 20,153 3,664 23,85 Marin 32,490 2,736 51,8 Mariposa 37,000 41,050 78,05 Mendocino 89,518 67,301 156,81 Mondoc 19,237 4,288 23,55 Mono 438,975 225,295 664,27 Nevada 86,375 10,450 96,8 Plumas 4,300 1,000 <t< td=""><td></td><td>114, 300</td><td></td><td>232, 250</td></t<>		114, 300		232, 250	
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Fresno 545,389 312, 191 857,55 Glenn 164,500 22, 100 186,60 Humboldt 30,248 3,861 34,10 Inyo 30,248 3,861 34,10 Kern 127,860 104,109 231,96 Kings 343,625 75,613 419,25 Lake 85,018 85,018 85,018 Lassen 20,153 3,664 23,81 Madera 49,248 8,922 41,46 Marin 32,480 8,922 41,46 Mariposa 37,000 41,050 78,0 Mendocino 89,518 67,301 156,81 Merced 90,000 19,237 4,288 23,55 Mono 19,237 4,288 <td< td=""><td>Del Norte</td><td>10, 291</td><td>652</td><td>10,943</td></td<>	Del Norte	10, 291	652	10,943	
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Inyo		164, 500	22, 100	186, 600	
Kern 127,880 104,109 231,96 Kings 343,625 75,613 419,22 Lake 85,018 85,018 Lassen 20,153 3,664 23,81 Madera 49,099 2,736 51,82 Marin 32,480 8,922 41,400 Mariposa 37,000 41,050 78,40 Mendocino 89,518 67,301 156,81 Merced 19,237 4,283 23,55 Mono 67,451 51,239 118,66 Napa 438,975 225,295 664,27 Nevada 86,375 10,450 96,8 Plumas 4,300 1,000 5,36 Sacramento 330,450 340,180 670,6 San Benito 35,200 9,025 44,22 San Francisco 231,980 39,48 24,216 127,452 401,66 San Luis Obispo 361,351 183,512 544,86 38,06 38,85 38,55					
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San Francisco 274,216 127,452 401,66 San Joaquin 361,351 183,512 544,86 San Luis Obispo 361,351 183,512 544,86 San Mateo 42,318 38,550 80,86	Sacramento			670, 630	
San Joaquin 274, 216 127, 452 401, 66 San Luis Obispo 361, 351 183, 512 544, 86 San Mateo 42, 318 38, 550 80, 86		35, 200	9, 025	44, 22	
San Luis Obispo 361, 351 183, 512 544, 86 San Mateo 42, 318 38, 550 80, 86					
San Mateo 42,318 38,550 80,86	San Joaquin			401,668	
	San Mateo Santa Barbara	42, 318 133, 956	38, 550 132, 776	80, 868 266, 73	

		Number of trees.			
Counties.	Bearing.	Non-bear- ing.	Total.		
Northern California—Continued, Santa Clara. Santa Cruz Shasta		1, 127, 545 252, 119	4, 021, 210 788, 707		
Sierra Siskiyou	225	7, 920	8,145		
Solano Sonoma Stanislaus Sutter	829, 742 129, 005	360, 329 80, 200	1, 190, 071 209, 205		
Tehama Trinity Tulare	488, 949 5, 946 727, 695	745, 176 4, 495 204, 000	1, 234, 125 10, 441 931, 695		
Tuolumne Ventura Yolo. Yuba.	21, 935 400, 776 1, 114, 300 154, 480	9, 390 406, 993 141, 500 61, 300	31, 325 807, 769 1, 255, 800 215, 780		
. Total for northern California		6, 010, 773	19, 171, 596		
Southern California: Los Angeles. Orange Riverside San Bernardino. San Diego	1, 083, 696 424, 306 1, 188, 052 759, 910 409, 961	1, 739, 675 382, 585 560, 670 1, 013, 735 804, 603	2, 823, 371 806, 891 1, 748, 722 1, 773, 645 1, 214, 564		
Total for southern California	3, 865, 925	4, 501, 268	8, 367, 193		
Total for State	17, 026, 748	10, 512, 041	27, 538, 789		

TRANSPORTATION.

SHIPMENTS BY RAIL.

Transportation of fruit from California forms quite an item in the annual tonnage of the transcontinental railroads, and especial attention is given to the movement of this class of freight. During the height of the shipping season special schedules are put into effect between California and Eastern points and every possible effort is made to insure the speedy delivery of the freight in good condition at its final destination. There were 88,189.2 tons of green deciduous fruits shipped out of the State by rail in 1900, of which 87,990.5 tons were shipped from northern California points and but 198.7 tons from southern California.

Northern California also shipped by far the greater amount of dried fruits, raisins, and canned fruits, shipping 84,899.9 tons of dried fruits, 34,217.5 tons of raisins, and 45,679.9 tons of canned goods, against 3,696.4 tons of dried fruits, 1,611.2 tons of raisins, and 4,928.6 tons of canned goods from the southern division of the State.

Southern California has at present, however, a practical monopoly of the citrus-fruit industry, having in 1900 shipped 218,183 tons, against 8,273.6 tons from northern California. The shipments of citrus fruits from the southern district being larger than the total

shipments of green deciduous, citrus, dried fruit, and raisins from the portion of the State north of the Tehachapi Mountains.

The following table, compiled from reports of the State Board of Trade of California, shows the shipments out of the State by rail of the various kinds of fruit from northern and southern California:

Shipments of fruit out of California by rail in 1900.

[Tons of 2,000 pounds.]

	Varieties of fruit shipped.					
Place of shipment.	Green deciduous.	Citrus.	Dried.	Raisins.	Canned.	
Northern California; San Francisco. Oakland San Jose Stockton. Sacramento. Marysville Interior points not designated. Total for northern California.	Tons. 51.9 1,990.0 17,978.6 10,864.1 52,794.3 4,159.7 151.9	Tons. 76.9 0.4 5,089.9 439.5 2,666.9	Tons. 5,548.0 5,548.0 32,270.4 23,599.4 13,157.8 5,612.9 4,181.4 84,899.9	Tons. 74.8 5.9 29,888.7 878.9 326.3 3,042.9 34,217.5	Tons. 16, 183. 7, 220. 7, 001. 4, 608. 6, 077. 4, 128. 459.	
Southern California: Los Angeles Orange County Riverside County San Bernardino County San Diego County Total for southern California	26.4	133, 864.8 13, 512.3 35, 460.6 29, 036.0 6, 309.3 218, 183.0	1,748.5 492.7 130.1 1,265.5 59.6 3,696.4	885.4 69.3 39.1 273.8 343.6	4,172. 139. 616. 	
Total for State	88, 189.2	226, 456.6	88, 596.3	35, 828.7	50,608.	

¹ Contains 3,116 tons of canned vegetables.

SHIPMENTS BY SEA.

To the shipments by rail from northern California should be added shipments by sea from San Francisco, amounting to 32,817.1 tons of all classes of fruit, as shown in detail in the following table:

Shipments of fruit out of California by sea in 1900.

[Tons of 2,000 pounds.]

	Varieties of fruit shipped.				
Place of shipment.	Green de- ciduous.	Citrus.	Dried.	Raisins.	Canned.
San Francisco	Tons. 12,987.3	Tons.	Tons. 1,457.5	Tons. 1 218.3	Tons. 2 28, 064.0

¹ Shipments to Hawaii not included; figures not obtainable.

INCREASE OF SHIPMENTS.

Comparative shipments by rail and sea for a series of years show that there has been a steady growth of total shipments of fruit from California, the most marked and steady increase being in shipments

² Shipments to Hawaii included to June 14, 1900.

of citrus fruits, which increased from 34,209.6 tons in 1890 to 226,546.6 tons in 1900, an increase of 192,337 tons, or 562.2 per cent, the highest point being reached in 1900. Shipments of green deciduous fruits have not increased in like proportion, however. Although there has been a marked increase in such shipments since 1890, they have not materially increased during the past few years, shipments in 1900 being less than those of 1899 and but little larger than those of 1894.

Dried fruit shipments have had a very steady growth, total shipments amounting to 90,053.8 tons in 1900, against 32,297.5 tons in 1890.

Shipments of raisins reached their maximum in 1898, in which year 47,796.3 tons left the State, against 20,560.1 tons in 1890. In 1899 and 1900 there was a considerable falling off in the shipment of raisins, about 36,000 tons being shipped in each of those years.

Shipments of canned goods show many fluctuations; from 40,060.9 tons in 1890 they decreased to 31,626.3 tons in 1893, and with numerous fluctuations finally reached 75,556.9 tons in 1900, the highest point in the entire period.

The following table shows by years the total shipments by rail and sea of each kind of fruit out of California from 1890 to 1900:

Total annual shipments of fruit out of California by rail and by sea, 1890 to 1900.

[Tons of 2,000 pounds.]

Year.		Varieties of fruit.					
	Green deciduous.	Citrus fruits.	Dried fruits.	Raisins.	Canned fruits.	Total.	
1890	Tons, 34,042,0	Tons, 34, 209, 6	Tons, 32, 297, 5	Tons, 20, 560, 1	Tons. 40,060.9	Tons. 161, 170.	
1891	50, 548.9	46,921.4	32,919.0	22,779.1	32, 395.0	185, 563.	
1892 1893		34,857.5 80,757.0	29, 762.2 45, 386, 2	26, 673. 4 37, 409. 9	55, 273.7 31, 626.3	205, 941. 275, 291.	
1894		58, 964.0	51,828.2	46,954.4	60, 352.6	308, 791	
1895		115, 825.5	61, 386.4	46, 390.1	41,395.5	331, 252.	
1896		99, 156.0 98, 547.0	48, 522.8 75, 159.7	34, 434.6 39, 065.8	45,546.9 73,464.7	285, 298. 358, 587.	
898		180, 658, 9	76, 662, 7	47,796.3	52, 219, 7	427, 069.	
1899	96,943.6	131,916.8	86,925.3	36,008.7	75, 240.0	427, 034.	
1900	91,176.5	226, 546.6	90,053.8	36,047.0	75, 556.9	519, 380.	

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